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No 12

Remarks

On Cold

by

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of

Charleston South Carolina.

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The subject of cold used as a remedy in disease, has of late excited considerable attention in the medical world.

The question whether the effect of this noble remedy be caused by a stimulating or sedative power, from a tendency to establish principles on which its use should be regulated, has an equal claim to attention & interest.

To consider this question is the intention of the following piece. In doing this we shall mention a few of the principal arguments and facts used on either side, attempt to contrast them, and thence draw our conclusion.

Previous however to immediately entering on the subject, it would not be improper to explain myself as to the nature of Cold. Cold is certainly a negative

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negative quality, and cannot therefore be said to commence at any fixed point. This is proven by the common experiment of making the same temperature appear hot or cold to the same body according to the different circumstances under which it had previously laboured.

Thus suppose the mercury at 30° Fahrenheit and suddenly reduced to 60°. The sensation of cold would be ~~incident~~
~~to~~ felt. Again, suppose the mercury at 40° F suddenly elevated to 60°. The opposite sensation would be the effect.

We shall commence first with the effects of intense cold upon the human body. These are languid indisposition to motion and no great a desire to sleep. But even the fear of certain death cannot prevent insomnias. In explaining these phenomena, the advocates for the stimulant doctrine suppose the action of cold ^{similar}

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similar to that of opium, brandy & other stimuli, which when want to except induce the same symptoms. To this explanation we cannot readily object when we consider the effects of cold water upon the system generally, & the pulse. From Dr. Currie's valuable publication on water, we quote the following illustrative fact. If the affusion of cold water on the surface of the body be used during the cold stage of the paroxysm of Fever, the respiration is nearly suspended; the pulse becomes fluttering, feeble, & of an incalculable frequency, the surface & extremities become doubly cold and shrivelled and the patient seems to struggle with the pangs of instant desolation. I have no doubt from what I have observed, that in such circumstances, the repeated affusion of a few buckets of cold water would extinguish life.

From the above striking fact I think it will appear evident

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widest, that the effects of cold instead of partaking of a stimulant nature, is as debilitating an agent as we can use.

In order to prove more particularly its effects on the pulse the following experiment from Dr. Stock's treatise on cold will suffice: it was made upon two Irish porters; both (he says) were strong muscular men, & both in the vigour of life, being little more than thirty years old. It was thought that they might without inconvenience bear immersion without muscular strength, for a longer period than had been submitted to in any of the instances above cited. The result was decisive and satisfactory. In the first, who appeared the strongest of the two, the pulse was reduced in four minutes 12 strokes; in ten minutes 14 strokes, and scarcely perceptible; in about three minutes more, the pulse was nearly obliterated, only twelve pulsations & those exceedingly faint could be made out in the space of half a minute. The other case was of the same nature & equally conclusive.

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I may add however that in most of the statements made with cold water, the time is considerably increased if necessary, so that in most of the experiments made by the Author just cited, time can be used, but it might also be observed that the power in these instances is very much diminished in force & quantity. This however when I compare tends rather to detract from than add to the statement however.

Verney. It has been common to notice the effects produced on these persons who inhabit very northern latitudes. Mr. Bent has engaged me in his views of the subject, and has even not satisfactorily answered it in accordance with his probable opinion than any other. In those of the Laplanders we are told, no summer and their existence and mortal endowments impervious to the inhabitants of more temperate regions. The result of a particularly happy property of human nature when unpersecuted

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part, does not pulsate oftener than from thirty to forty times in a minute.

July. The increased depression from the nose which an exposure to a cold atmosphere always occasions, is an heat, power and a stimulus; for in order it is contended, to move even properly the vessels must take a stimulatory action. This action can only be produced by a stimulus which stimulus in this instance is evidently cold. Has not a whole chain of his increased reaction to cooling went, but that the phenomena ~~are~~ ^{are} capable of a different solution we think evident. The cold in this instance according to our doctrine dissociates the body; if at long rest and of course, the excitability is very much accumulated, this excitability so accumulated is capable of being strongly acted upon even by a moderate stimulus - but always tending to an equilibrium, unless from the ~~is~~ ^{is} contiguous ^{is} to a sufficient stimulus under these circumstances.

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circumstances to excite the muscular depression.

This would not explain the many instances of success and action which the application of cold produces, for we grant that cold under certain circumstances and modes of application may be made to produce stimulating effects.

Fourthly. We will now notice some of the misapplied uses of the application of cold to the disease system. In the writers on this subject, we venture to wish as many as possible of using cold affusions during the cold fit of fevers, on account of the dangerous sinking of the tone and encouraging decay. But if cold be a stimulant, why would not these affusions tend rather to brace the system as Park Hether tones or stimulates would? On the contrary when used during the hot stage, when the arterial action is weak and the system in a highly excited state, cold affusions are of service, and we see cases where improvements appear to have been made.

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with violent convulsions, & continuing mentioned a striking case of a patient in the cold stage. In this state a negro's urine was dashed over him as usual, but not with the usual happy effects; his breathing was for some minutes almost suspended; his pulse at the wrist was not to be felt; the pulsations of the heart were feeble and faltering, a deadly coldness spread over his surface, and when the respiration returned it was short, hurried and laborious" he proceeds and says "The same remedy was however used in the hot stage of the ensuing feverishness and with the usual happy effects."

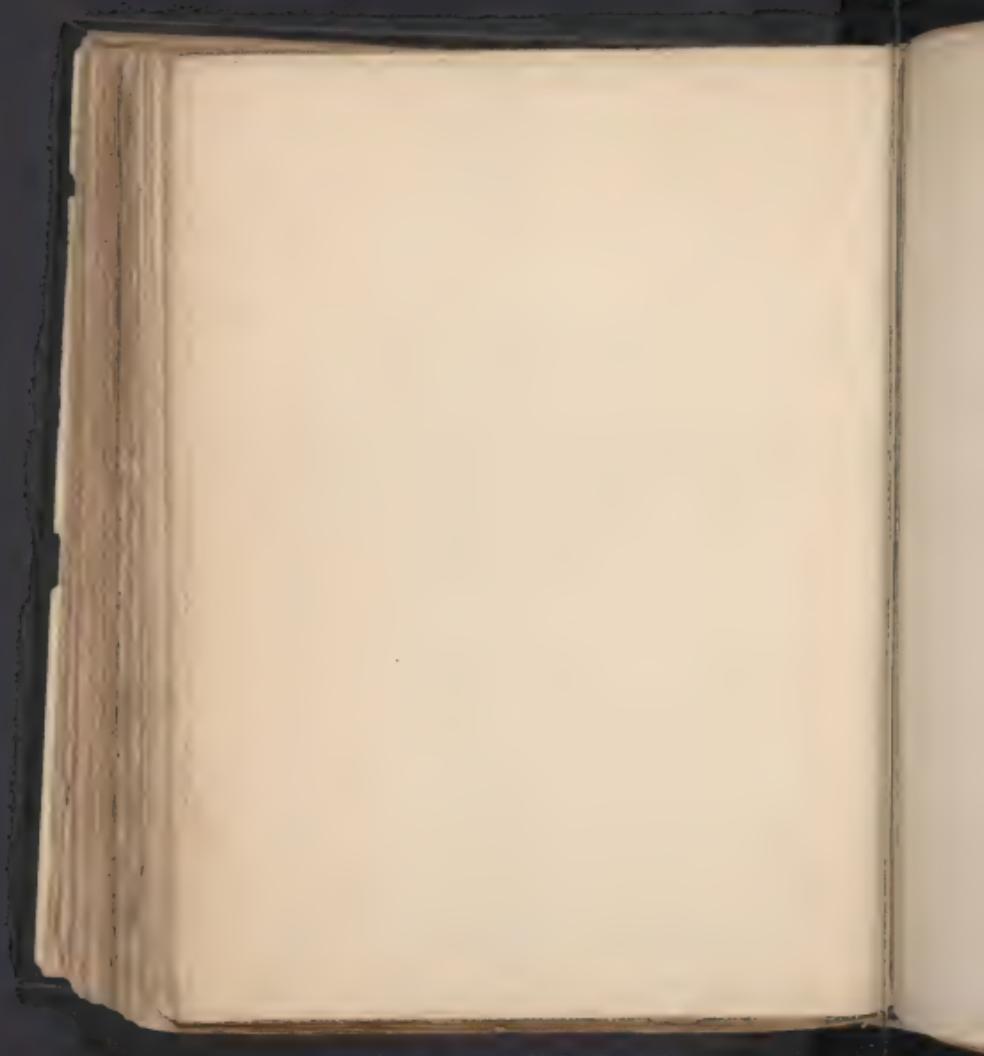
Our worthy professor of the institutes, in his account of yellow Fever, tells us "Cold water was a most agreeable & powerful remedy in this disease; I directed it to be applied by means of napkins to the head, and to be injected into the veins by way of glyster". In another place he says "Cold water when applied to the feet as certainly reduces

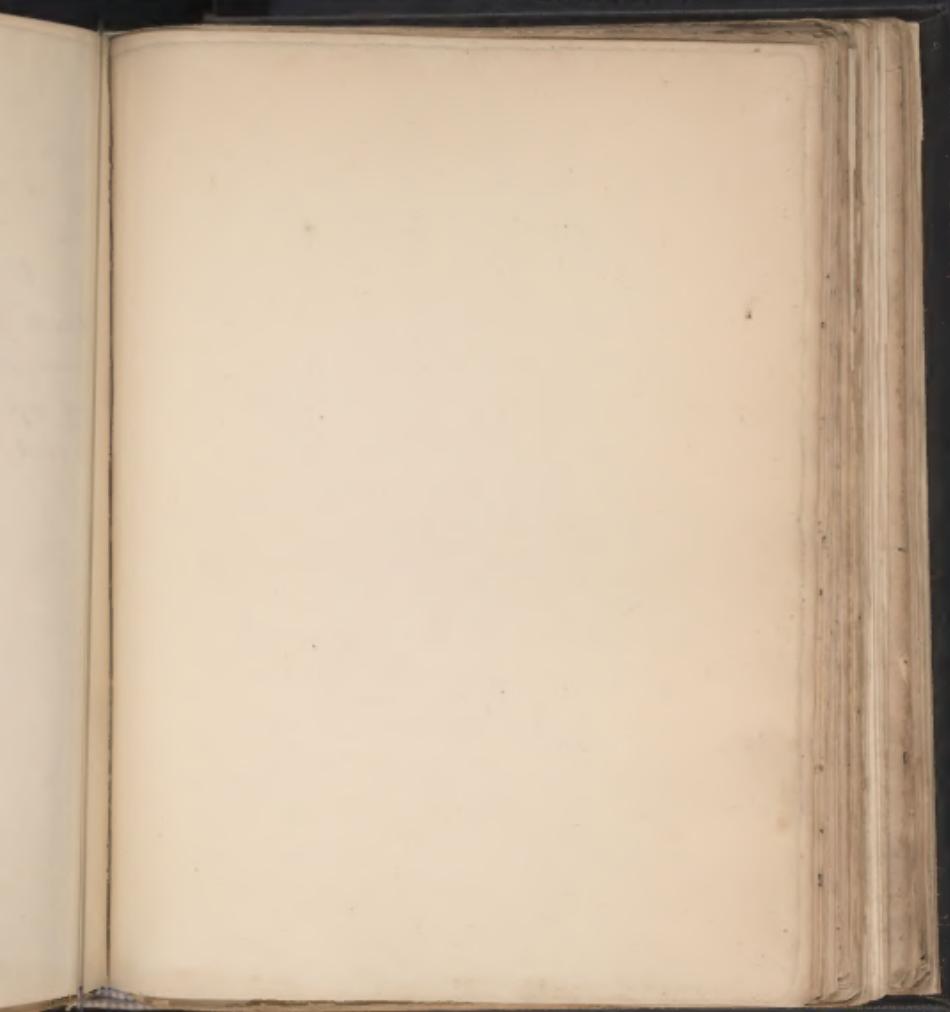
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to fire or fire and fumigation, to warm water applied in the same way produce contrary effects in it.

Upon the whole we must except exercise an abatement for the irritant effect of cold, and more particularly so from its medical application, for in many cases except in violent action when the application becomes violent, subacute &c, cold is inserviently useful. —







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